PROJECT DOCUMENTATION

FitFlex: Your Personal Fitness Companion

1.INTRODUCTION

Project Title: ZenFit Hub

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2.PROJECT OVERVIEW

Purpose:

ZenFit Hub is a web-based personal fitness companion website designed to help users track, plan, and improve their fitness journey. It empower individuals to build healthier lifestyles by making fitness personalized, accessible and motivating through an all-in-one digital companion. It act as a personal companion to help users meet their fitness goals. It act as not just about exercising, about overall health guidance.

- Features:
 - -Workout Management
 - -Nutrition Guidance
 - -Diet Suggestions
 - -Progress Tracking
 - -Motivation & Engagement
 - -Admin control panel

3.ARCHITECTURE

• Frontend:

It is everything the user sees and interacts within an application.

HTML, CSS, Javascript, React.js with Bootstrap & Material UI.

Backend:

It is the server-side part of an application that processes data, applies logic, and sends results to the frontend.

Node.js & Express.js managing API for workouts, nutritents, etc...

Database:

It is the storage system that keeps all users and fitness-related data safe, organized, and retrievable.

MongoDB Store users data, application & chat messages

4.SETUP INSTRUCTIONS

Prerequisites:

Node.js

MongoDB

React.js

HTML,CSS and Javascript
Git
Visual Studio Code

• Installation Steps:

Navigate into the cloned repository directory and install libraries:

-cd fitness-app-react

-npm install

Start the development server, execute the command:

-npm start

Access the web browser & Navigate:

-https://localhost:3000

Version control in GitHub:

-https://git-scm.com/downloads

Integrated Development Environment:

-Visual Studio Code

-Sublime Text

5.PROJECT STRUCTURE

```
Fitflex/
public/
src/
assets/
components/
screens/
services/
context/
utils/
hooks/
constants/
```

```
App.js
index.js
.env
package.json
README.md
```

6.RUNNING APPLICATION

• Frontend:

Install dependencies

-npm install

Run the frontend

-npm start

Backend:

Run the server

-npm start

Access:

Visit http://localhost:3000

7.API DOCUMENTATION

Landing Page Coding:

SignIn Page Coding:

<div className="auth-container">

<form className="auth-form" onSubmit={handleSubmit}>

<h2>Sign In</h2>
<input placeholder="Email" required="" type="email"/>
<input placeholder="Password" required="" type="password"/>
<button type="submit">Sign In</button>
<pre><button classname="link-btn" onclick="{onClose}" type="button">Back</button></pre>
SignUp Page Coding:
<u>orgnop rage ocamg.</u>
<div classname="auth-container"></div>
<pre><form classname="auth-form" onsubmit="{handleSubmit}"></form></pre>
<h2>Sign Up</h2>
<pre><input placeholder="Full Name" required="" type="text"/></pre>
<pre><input placeholder="Email" required="" type="email"/></pre>
<pre><input placeholder="Password" required="" type="password"/></pre>
<pre><button type="submit">Sign Up</button></pre>
<pre><button classname="link-btn" onclick="{onClose}" type="button">Back</button></pre>
Bodypartscategory:
<pre>className="exercise" key={index} onClick={()=> navigate(/exercise/\${exercise.id})} ></pre>

<pre></pre>
<h3>{exercise.name}</h3>
<u> </u>
{exercise.target}
{exercise.secondaryMuscles.map((muscle, index) => {
return index < 2 && (
<pre><li key="{muscle}">{muscle}</pre>
<u>)</u>
}
export default BodyPartsCategory
8.USER INTERFACE
Landing Page:
<u>Larranny ragor</u>
Welcome! Please Sign In or Sign Up
Sign by Sign Up

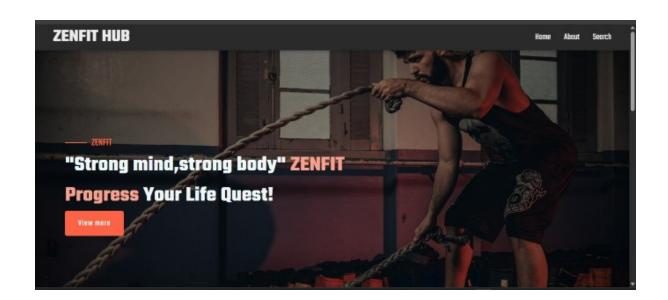
SignIn Page:



Signup Page:



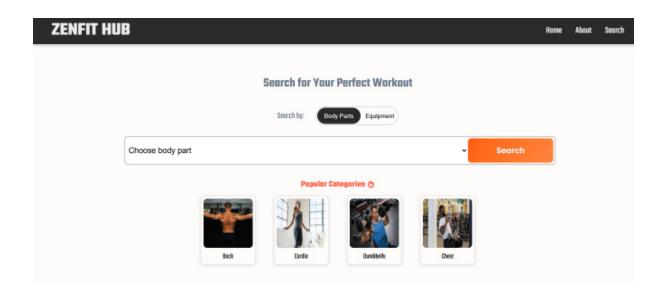
Homescreen:



About us:



SearchScreen:



BodyPartscategory:

Neck





9.DEMO LINK

https://drive.google.com/file/d/1r6gwjLa_tD9x9THSow_cBbLAT0KQZ3H6/view?usp=sharing

10.KNOWN ISSUES

No offline workout tracking.

No direct access to device sensors like in mobile apps.

11.FUTURE ENHANCEMENT

Group challenges & leaderboards.

Advanced Nutrition & Wellness.

Voice based fitness assistance.

Smart gym equipment connectivity.

Rewards, badges, streaks to boost user.

Online fitness personal trainers.

